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# INTERNATIONAL SEARCH REPORT

International Application No  
**PCT/GB 99/04312**

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 A01M1/20 A61L9/22

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 A01M A61L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 97 01273 A (UNIV SOUTHAMPTON ;HOWSE PHILIP EDWIN (GB); HUGHES JOHN FARRELL (GB) 16 January 1997 (1997-01-16)	1-3, 10-14
Y	page 1, line 3 - line 6	4-6
A	page 2, line 14 -page 5, line 2	7-9, 15-19
	claims; figures	
Y	US 5 749 520 A (MARTIN JOHN ET AL) 12 May 1998 (1998-05-12)	4,6
	column 4, line 35 - line 67	
Y	FR 2 067 959 A (DYNACHIM SARL) 20 August 1971 (1971-08-20)	4,5
	page 2, line 16 -page 7, line 19; claims; figures	
	-/-	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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- "&" document member of the same patent family

Date of the actual completion of the international search

**17 March 2000**

Date of mailing of the international search report

**27/03/2000**

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# INTERNATIONAL SEARCH REPORT

International Application No.  
PCT/GB 99/04312

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 96 33539 A (STRAINER LPB AKTIEBOLAG ;ANDRZEJ LORETH (SE)) 24 October 1996 (1996-10-24) claims; figures	1,10
A	US 5 077 500 A (LORETH ANDRZEJ ET AL) 31 December 1991 (1991-12-31) claims; figures	1,10
A	GB 2 060 076 A (BOSCH GMBH ROBERT) 29 April 1981 (1981-04-29) cited in the application claims; figures	1,10
A	WO 92 15339 A (PELTIER MARK E) 17 September 1992 (1992-09-17) cited in the application claims; figures	1,10
A	DATABASE WPI Section PQ, Week 199423 Derwent Publications Ltd., London, GB; Class P34, AN 1994-189966 XP002133384 & SU 1 803 679 A (BELOV YU I), 23 March 1993 (1993-03-23) abstract	1,10

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No.

PCT/GB 99/04312

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9701273 A	16-01-1997	AU 693378 B AU 6236696 A BR 9608889 A CA 2225689 A CN 1193254 A DE 69604585 D DE 69604585 T EP 0835053 A NZ 311123 A	25-06-1998 30-01-1997 15-06-1999 16-01-1997 16-09-1998 11-11-1999 20-01-2000 15-04-1998 28-10-1999
US 5749520 A	12-05-1998	WO 9826809 A	25-06-1998
FR 2067959 A	20-08-1971	NONE	
WO 9633539 A	24-10-1996	SE 505053 C AU 5412196 A EP 0821840 A JP 11503870 T SE 9501407 A US 5982102 A	16-06-1997 07-11-1996 04-02-1998 30-03-1999 19-10-1996 09-11-1999
US 5077500 A	31-12-1991	SE 456204 B AT 70389 T AU 1295788 A DE 3866873 A EP 0343184 A FI 88762 B JP 2502142 T WO 8805972 A	12-09-1988 15-12-1991 24-08-1988 23-01-1992 29-11-1989 15-03-1993 12-07-1990 11-08-1988
GB 2060076 A	29-04-1981	DE 2940397 A JP 56056994 A SE 8006941 A	16-04-1981 19-05-1981 06-04-1981
WO 9215339 A	17-09-1992	US 5196171 A AU 664699 B AU 1761592 A CA 2105996 A EP 0574547 A JP 6505418 T US 5382410 A	23-03-1993 30-11-1995 06-10-1992 12-09-1992 22-12-1993 23-06-1994 17-01-1995
SU 1803679 A	23-03-1993	NONE	